

# Natural 3.1.6 Release Notes - Changes, Enhancements, New Features

This document covers the following topics:

- Version Check at Session Initialization Refined
  - Version Check for Module NATCONFIG Introduced
  - Length Calculation for Edit Masks with Leading Filler Character Corrected
  - Natural Remote Procedure Call
  - Determination of Window Size Corrected
  - Macro NTRPC and Profile Parameter RPC Enhanced
  - Changes to the Natural Load Library
  - Delivery of Assembler Macros of Type E Discontinued
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## Version Check at Session Initialization Refined

With Natural Version 3.1.5, the check for matching versions of the Natural nucleus and the FNAT system file has been refined. To prevent unpredictable errors during session execution, any attempt to start a Natural Version 3.1 nucleus with a Natural Version 2.3 FNAT system file will be rejected.

## Version Check for Module NATCONFIG Introduced

With Natural Version 3.1.5, a check for matching versions of the Natural nucleus and module NATCONFIG has been introduced. To prevent unpredictable errors during session execution, any attempt to start a Natural Version 3.1.5 (or above) nucleus with a NATCONFIG module from a previous system maintenance (SM) release will be rejected.

**Note:** If you adapted an existing NATCONFIG module for your own purposes, you cannot continue using that module. Transfer your changes to the new NATCONFIG source before you assemble and link NATCONFIG as described in the corresponding installation description.

## Length Calculation for Edit Masks with Leading Filler Character Corrected

With Natural Version 3.1.5, leading filler characters specified in edit masks for numeric operands are no longer counted as being part of the edit mask. This may reduce the output length of numeric fields with an associated edit mask so that following output in the same line is shifted one position to the left. To apply the correction to an existing object, it must be cataloged with Natural Version 3.1.5 or above.

### Example:

```
P(P3) = -12
DISPLAY P (EM=-*ZZZ)Output before Natural Version 3.1.5:
  P
  ----
  -12
Output with Natural Version 3.1.5 or above:
  P
  ----
  -12
```

# Natural Remote Procedure Call

## Separate RPC Add-On Product

As of Natural Version 3.1.6 for Mainframes, Natural RPC will be a separate subcomponent of Natural. For the enhancements that are provided with Natural RPC Version 5.1.1, refer to Natural RPC Version 5.1.1 in these Release Notes and to the corresponding sections in the Natural Remote Procedure Call documentation. Currently, the old and the new Natural RPC versions are both available.

**Note:**

The default installation of Natural Version 3.1.6 will use the old Natural RPC version.

For details on installing the new Natural RPC version with Natural Version 3.1.6, see RPC Installation on Mainframe Platforms.

It is not possible to use the new Natural RPC version with Natural Version 3.1.5 or below.

## Support of CSCPATT Parameter Discontinued

As the CSCI transport protocol is no longer supported, the CSCPATT parameter of the NTRPC macro will be rejected with Natural Version 3.1.6. The CSCPATT subparameter of the RPC profile parameter will be ignored.

The value CSCI will be rejected if specified as transport protocol for the DFS, RDS or TRANSP parameters of the NTRPC macro or for the DFS, RDS or TRANSP subparameters of the RPC profile parameter.

## Determination of Window Size Corrected

According to the Natural Statements Manual, the size of a window defined by means of the DEFINE WINDOW SIZE AUTO statement is determined by the window data, and not by the size of the window title. With previous versions of Natural for Mainframes, the size of the window was determined by the size of the window title.

With Natural Version 3.1.6, this has been corrected to make Natural for Mainframes compliant with Natural on Open Systems. Now the window title is truncated if its size exceeds the size of the window. The size of windows that have been defined using the SIZE AUTO clause may also be reduced.

## Macro NTRPC and Profile Parameter RPC Enhanced

The maximum length of the values that may be specified for the following keyword parameters of the NTRPC macro for static specification, or the subparameters with the same name of the profile parameter RPC has been extended from 8 to 192 characters:

- SRVNAME (Name of RPC Server) subparameter,
- SRVNODE (Name of Node) subparameter,
- server name and server node name for the DFS (RPC Default Server Address) subparameter,
- server name and server node name for the RDS (Define Remote Directory Servers) subparameter.

The range of valid values for the ACIVERS subparameter has been extended to 1-6.

## Changes to the Natural Load Library

With Natural Version 3.1.6, the following changes have been made to the Natural load library:

- The module PRDXR34 has been renamed to PRDXREF.
- The module SPENUC has been added to support the upcoming Natural Construct Spectrum Version 4.4.1.

## **Delivery of Assembler Macros of Type E Discontinued**

With Natural CICS Interface Version 2.3.6, Natural for DL/I Version 2.3.6, Natural for VSAM Version 2.4.6 and Entire Review Natural Monitor Version 3.6.1, delivery of assembler macros of Type E has been discontinued for VSE installations.